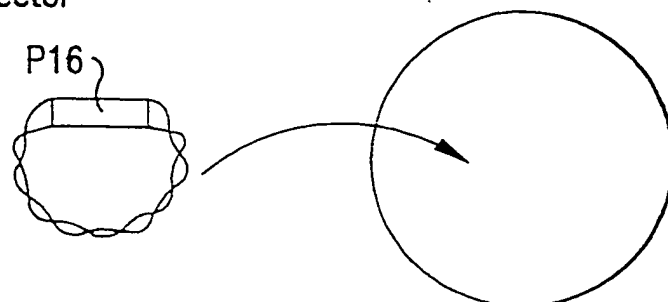
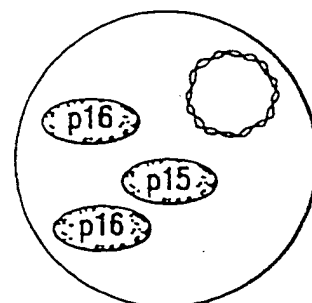


1 Introduce P16 expression vector
into cells



2 Induce p16 expression

+IPTG



3 Select growth-proficient
revertants

4 Characterize genetic
changes

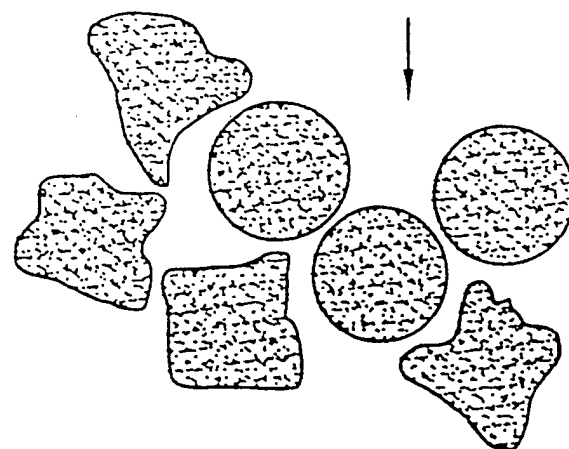
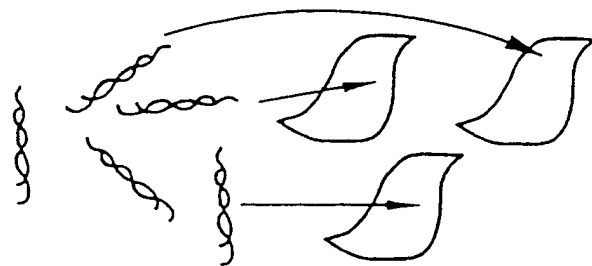
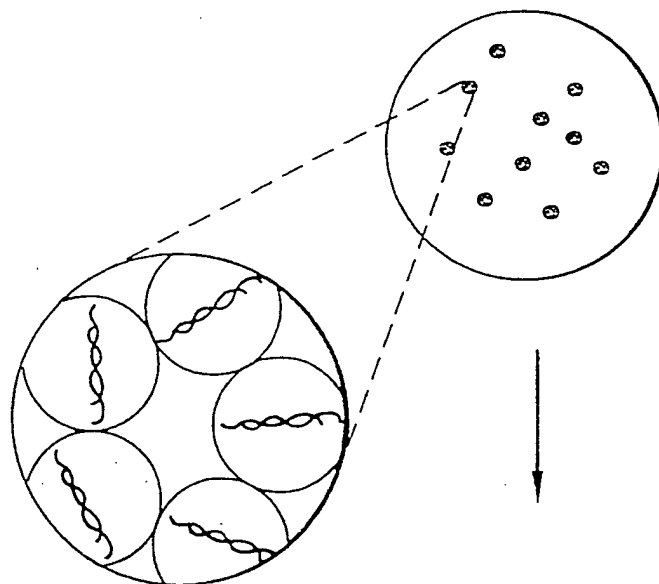


FIG.1

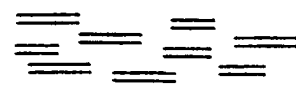
1 Introduce perturbagen library
into cells



2 Select growth-proficient
revertants



3 PCR amplify resident
perturbagens



4 Determine perturbagen
DNA sequence

AGGCAACAGCTACC...

FIG.2A

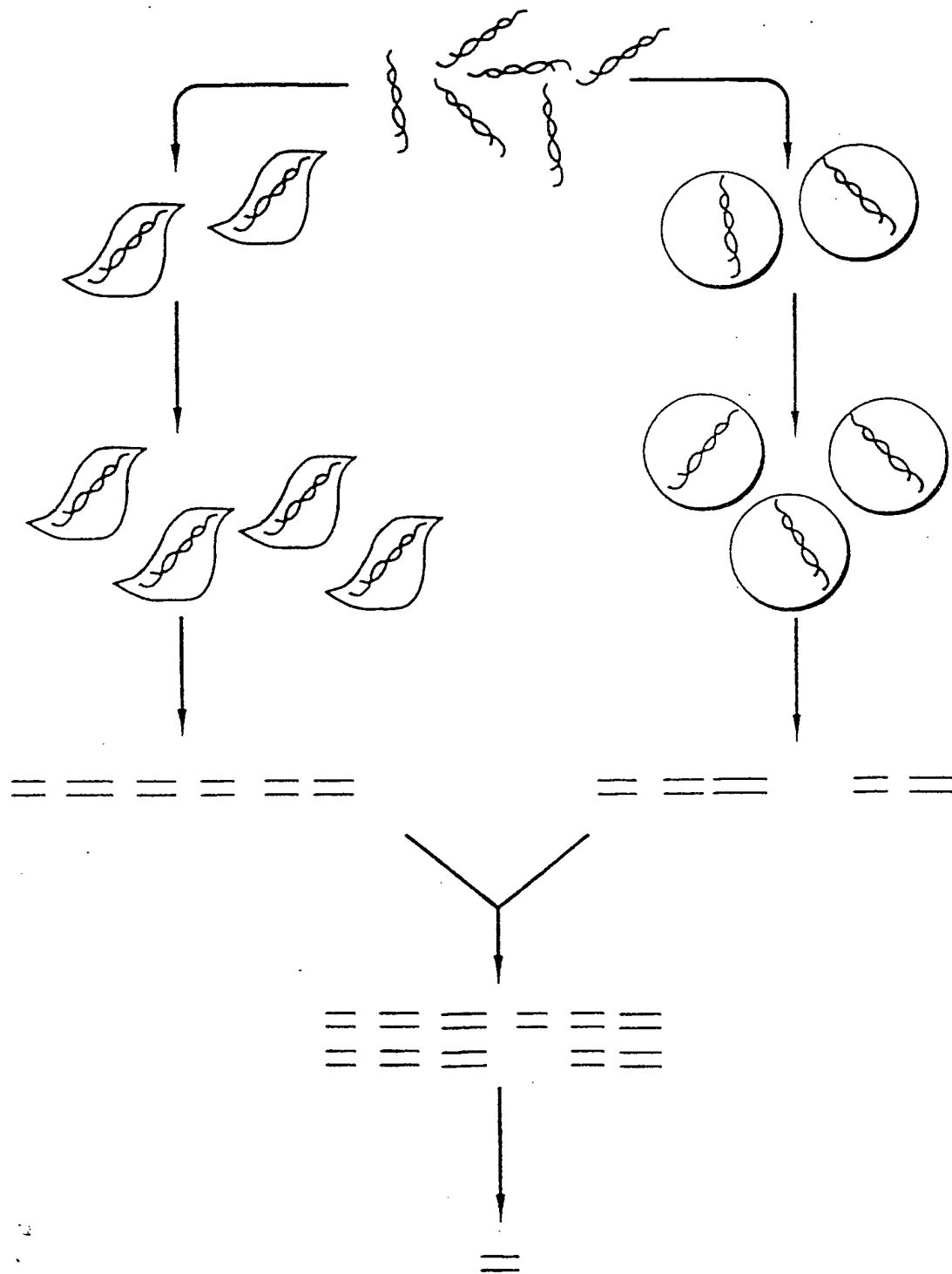


FIG.2B

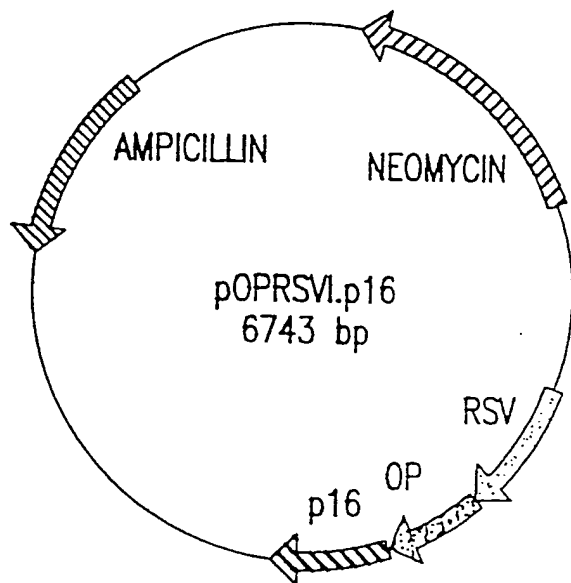


FIG.3A

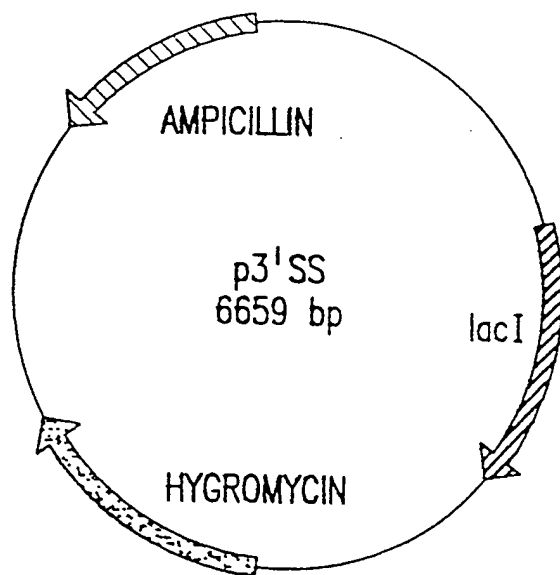


FIG.3B



rev1

2

3

4

5

6

pOP/p16+

pOP

5637 (Rb-)

FIG.4

rev1

2

3

4

5

6

5637 (Rb-)

T24 (Rb+)

FIG.5

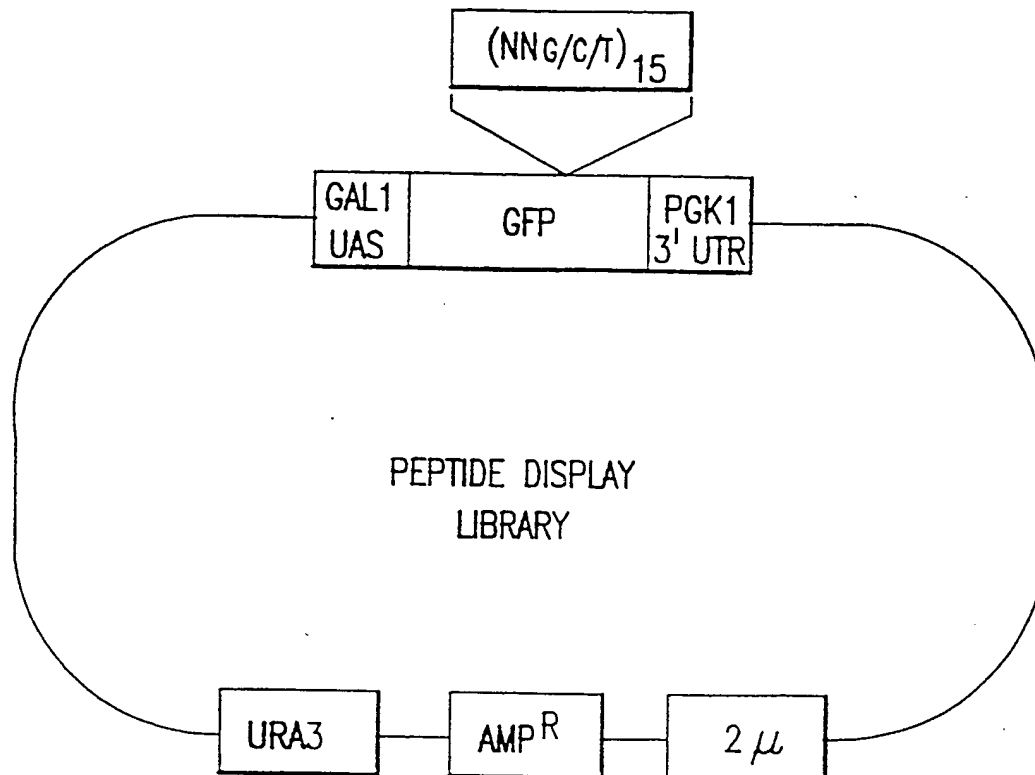


FIG.6A

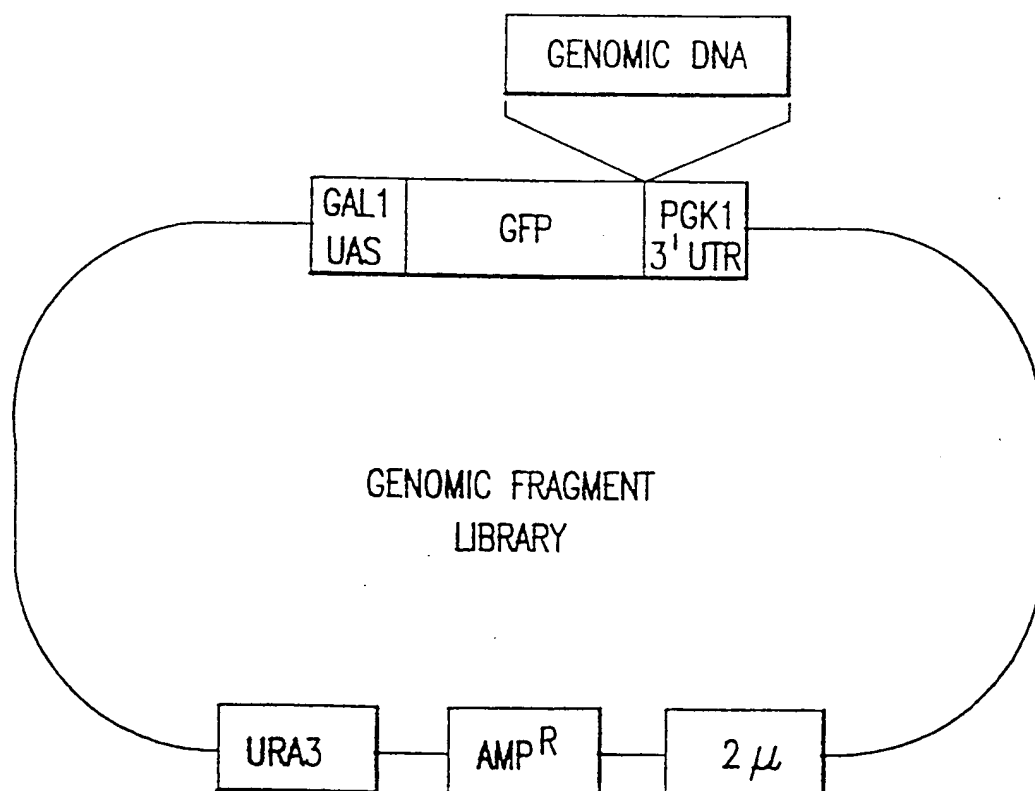
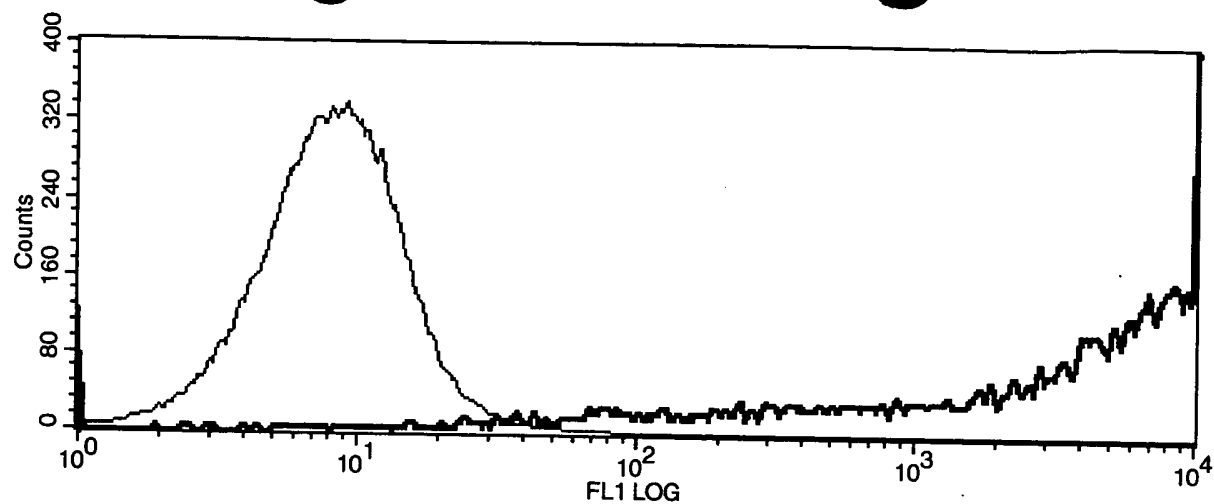
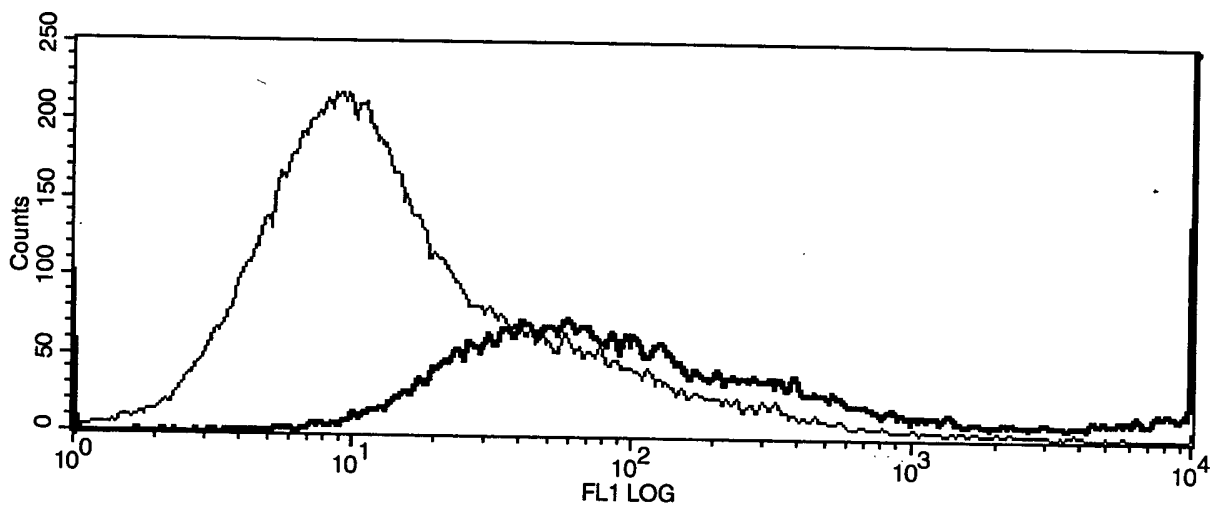


FIG.6B



Key

- 293R cells uninfected
- 293 cells infected



Key

- 293R cells infected
- 293R/293 at 1/100 infected

FIGURE 7